

## **Focus Area 2: Arthritis, Osteoporosis, and Chronic Back Conditions**

**Objective 2-10** calls for reductions in hospitalizations for vertebral fractures associated with osteoporosis among persons aged 65 years and older to an age-adjusted rate of 14.0 per 10,000 population.

A statistically significant increase in hospital discharge rates was found for California residents aged 65 and older with a diagnosis of vertebral fracture (ICD-9-CM codes 805.0, 805.2, 805.4, 805.8) as either a Principal Diagnosis or in any of seven first-listed Other Diagnosis fields of the hospital discharge record (Figure 2-10, Table 2-10). Rates increased significantly from 11.3 per 10,000 population in 2000 to 13.7 per 10,000 in 2005. The HP2010 objective is being achieved for the total population (all races, both sexes) as of 2005, however rates are moving away from the target.

Data by gender show that females aged 65 and older experienced significantly higher age-adjusted hospitalization rates for vertebral fractures than males (15.5 per 10,000 females in 2005 versus 11.0 per 10,000 males). Female rates have increased significantly away from the HP2010 target, and male rates have been below the target for all years 2000-2005.

Examined by race and ethnicity, the highest vertebral fracture hospitalization rates were observed for Whites (significant increase from 12.1 per 10,000 in 2000 to 15.4 per 10,000 in 2005). Asian/Pacific Islander persons aged 65 and older had the second highest rates of vertebral fracture hospitalizations (10.7 per 10,000 in 2005), but their rates have been consistently below the HP2010 target. Hospital discharge rates for American Indians/Alaska Natives were unreliable due to the small number of events, so it remains unknown whether the HP2010 objective is being met for this population. The HP2010 objective is being achieved for all other racial and ethnic populations in California as of 2005, except for Whites.

For more information on arthritis and osteoporosis, visit the California Arthritis Partnership Program (CAPP) and the California Osteoporosis Prevention and Education (COPE) program Web site at:

<http://www.dhs.ca.gov/ps/cdic/cdcb/medicine/gerontology/oaunit/>

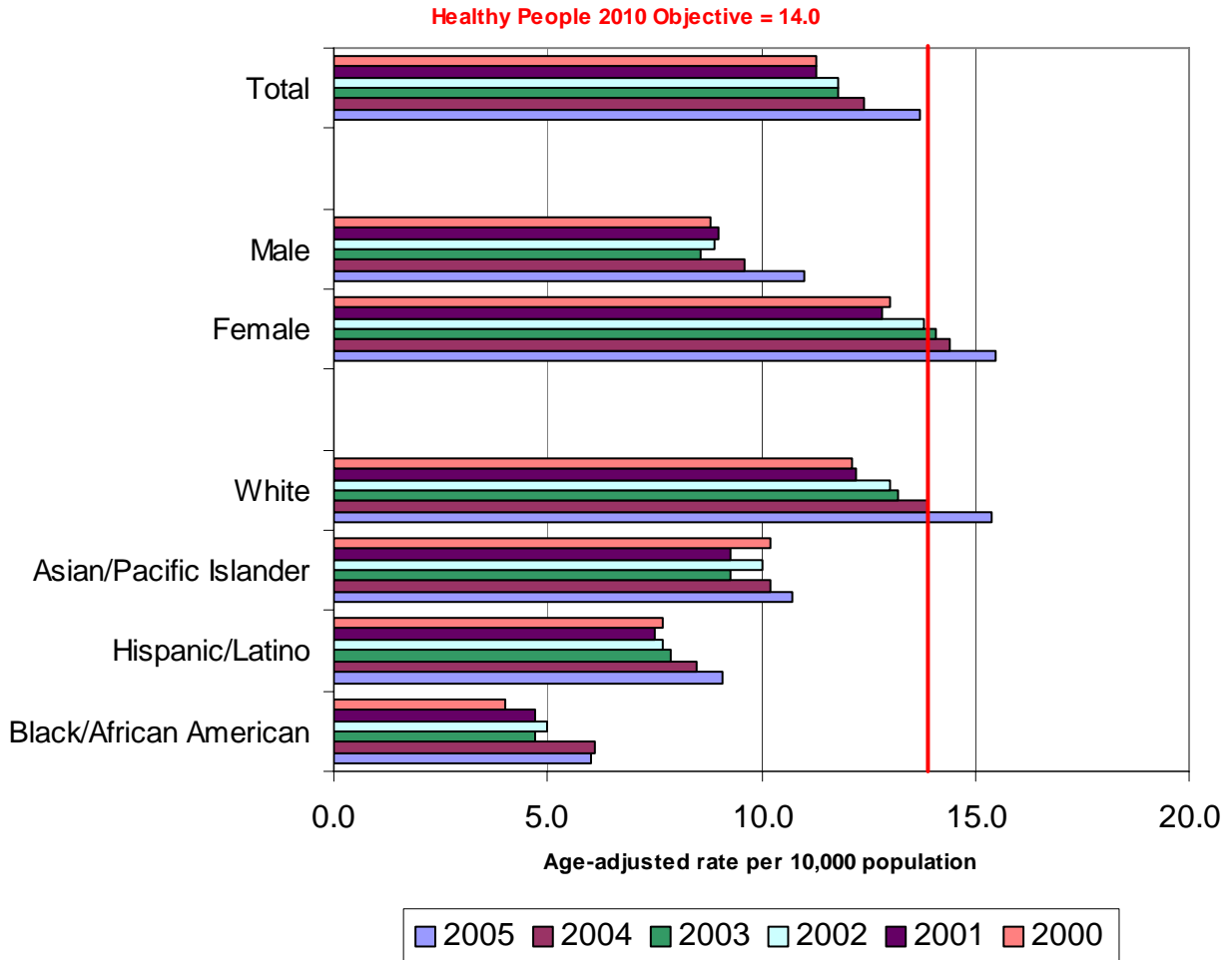
For more information on Healthy People 2010 objective 2-10, please visit:

<http://www.healthypeople.gov/Document/HTML/Volume1/02Arthritis.htm>

and

<http://www.healthypeople.gov/Document/html/tracking/od02.htm>

**Figure 2-10**  
**Vertebral Fracture Hospitalizations Among Persons Aged 65 and Older**  
**California, 2000-2005**



**Table 2-10: Vertebral Fracture Hospitalization Rates Among Persons Aged 65 Years and Older  
California, 2000-2005**

Objective 2-10	2000 N	Rate <sup>1</sup>	Lower C.I.	Upper C.I.	2001 N	Rate <sup>1</sup>	Lower C.I.	Upper C.I.
<b>Healthy People 2010 Target</b>		<b>14.0</b>				<b>14.0</b>		
<b>Statewide Total</b>	4,107	11.3	11.0	11.7	4,259	11.3	10.9	11.6
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	4	DSU	-----	-----	2	DSU	-----	-----
Asian/Pacific Islander	340	10.2	9.1	11.3	339	9.3	8.3	10.2
Black/African American	70	4.0	3.1	5.0	85	4.7	3.7	5.7
Hispanic/Latino	322	7.7	6.8	8.5	349	7.5	6.7	8.3
White	3,227	12.1	11.7	12.6	3,334	12.2	11.8	12.7
<b>Gender</b>								
Female	2,830	13.0	12.5	13.5	2,885	12.8	12.3	13.3
Male	1,277	8.8	8.3	9.2	1,374	9.0	8.5	9.5

Objective 2-10	2002 N	Rate <sup>1</sup>	Lower C.I.	Upper C.I.	2003 N	Rate <sup>1</sup>	Lower C.I.	Upper C.I.
<b>Healthy People 2010 Target</b>		<b>14.0</b>				<b>14.0</b>		
<b>Statewide Total</b>	4,636	11.8	11.5	12.2	4,765	11.8	11.5	12.2
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	7	DSU	-----	-----	4	DSU	-----	-----
Asian/Pacific Islander	395	10.0	9.0	10.9	395	9.3	8.4	10.2
Black/African American	94	5.0	4.0	6.0	92	4.7	3.7	5.7
Hispanic/Latino	385	7.7	6.9	8.5	428	7.9	7.1	8.6
White	3,631	13.0	12.6	13.5	3,720	13.2	12.7	13.6
<b>Gender</b>								
Female	3,209	13.8	13.3	14.2	3,348	14.1	13.6	14.5
Male	1,427	8.9	8.5	9.4	1,417	8.6	8.1	9.0

Objective 2-10	2004 N	Rate <sup>1</sup>	Lower C.I.	Upper C.I.	2005 N	Rate <sup>1</sup>	Lower C.I.	Upper C.I.
<b>Healthy People 2010 Target</b>		<b>14.0</b>				<b>14.0</b>		
<b>Statewide Total</b>	5,059	12.4	12.1	12.8	5,618	13.7	13.3	14.0
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	5	DSU	-----	-----	6	DSU	-----	-----
Asian/Pacific Islander	455	10.2	9.3	11.1	504	10.7	9.8	11.7
Black/African American	123	6.1	5.0	7.1	124	6.0	4.9	7.1
Hispanic/Latino	478	8.5	7.8	9.3	547	9.1	8.4	9.9
White	3,897	13.9	13.5	14.3	4,294	15.4	15.0	15.9
<b>Gender</b>								
Female	3,458	14.4	13.9	14.9	3,749	15.5	15.0	16.0
Male	1,601	9.6	9.1	10.1	1,869	11.0	10.5	11.5

SOURCES: Office of Statewide Health Planning and Development, Patient Discharge Data, 2000-2005;

CA Department of Finance, Demographic Research Unit, *Population Projections by Race/Ethnicity for California and Its Counties 2000-2050*, May 2004.

NOTES: \* ICD-9-CM codes 805.0, 805.2, 805.4, 805.8 as a Principal Diagnosis or in any of seven Other Diagnosis fields;

<sup>1</sup> Age-adjusted rate per 10,000 population aged 65 years and older.

DSU Data statistically unreliable (Relative Standard Error greater than 23 percent).